



Shutdown Activities

- Recover from five power outages
- Individual channel recovery efforts
- Routine maintenance
 - Calorimeter preamp fans
- Safety system tests
- Replace scintillator for luminosity counters
- Replace 14 of 48 PMTs for luminosity counters
- · Silicon Microstrip Tracker HDI recovery efforts
 - 2% additional HDIs returned to service
- Calibrations
- Improved insulation around low beta quadrupoles



LCW Chillers

- As of last fall had two Tranes (each with two compressors) and a York available at ~200 tons each
 - One Trane failed last fall
- Could not get a permanent replacement in place prior to return of warm weather
 - Rented spare capacity
 - Revived the 30 ton clean room chiller
 - Procured a "new" York
- Installed and commissioned "new" York during shutdown
- 30 ton clean room chiller recently failed
 - Fault localized to crankcase heater circuit
- One half of remaining Trane failed during shutdown
- Any two of the three larger chillers should provide sufficient chiller capacity for most situations
 - Not much margin until the Trane is repaired



Emerging from this Shutdown

- Routinely recording magnet off cosmic triggers for alignment studies during evening and owl shifts
- Using opportunity for daytime access
 - Survey of forward muon system
 - Addressing challenges achieving operating voltage for a few central muon channels
 - Aggravated by chiller status
 - Addressing complications during efforts to run solenoid
 - · In process of replacing a transformer in the PEI power supply
 - · Expect solenoid to be back in service by Wednesday
 - Testing SMT firmware enhancements



Emerging from this Shutdown

Currently plan to have collision hall secured
 Tuesday or Wednesday to exercise magnets and verify sufficient chiller capacity

 Expect to be ready to resume data taking with complete detector when collisions become available

